BATRIBIKE®

ELECTRIC BICYCLES

LCD

DIAMOND

GRANITE

QUARTZ

LCD Range

Owner Manual

MODEL:-

QUARTZ ☐

GRANITE ☐

DIAMOND ☐

SERIAL NUMBER:-

				B	B				

PURCHASE DATE:-

		/			/				

DAY MONTH YEAR

DEALER STAMP

IMPORTANT PLEASE READ THIS MANUAL FULLY PRIOR TO ASSEMBLY AND USE

For your safety and to ensure a long and trouble free life of your Batribike bicycle, check the operation of brakes, lights, bell and gears, and check tyre pressures are correct. Also check all fasteners, including quick release mechanisms, before every ride.

Thank you for purchasing a BATRIBIKE Electric Bicycle

With care and correct usage your bicycle
will give many years of service.

Important

**PLEASE CHARGE THE BATTERY
BEFORE FIRST USING THE BICYCLE**

Even though the battery indicator will show charge this cannot be relied upon until the battery has had the initial full charge.

PACKAGE CONTENTS

1 ELECTRIC BICYCLE
1 BATTERY
1 BATTERY CHARGER with UK Mains Lead
1 MANUAL

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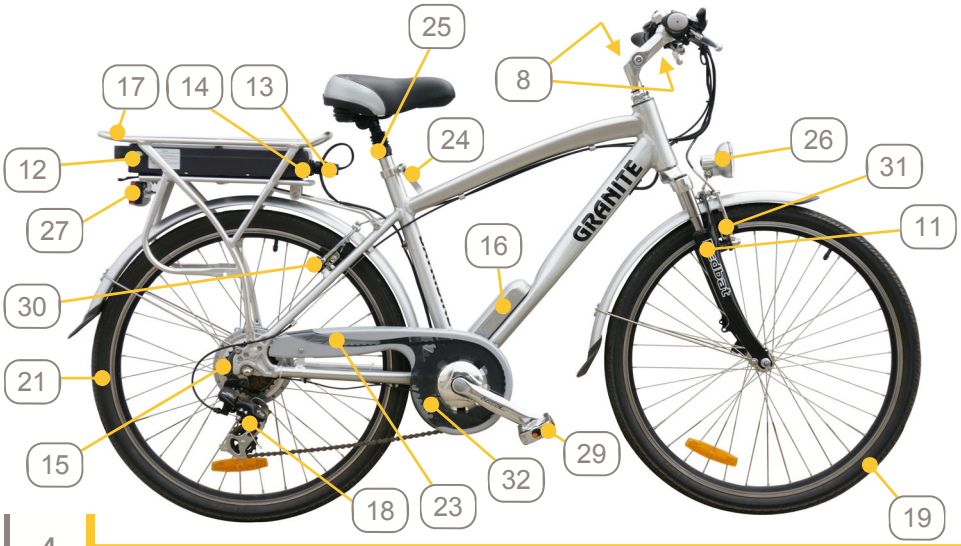
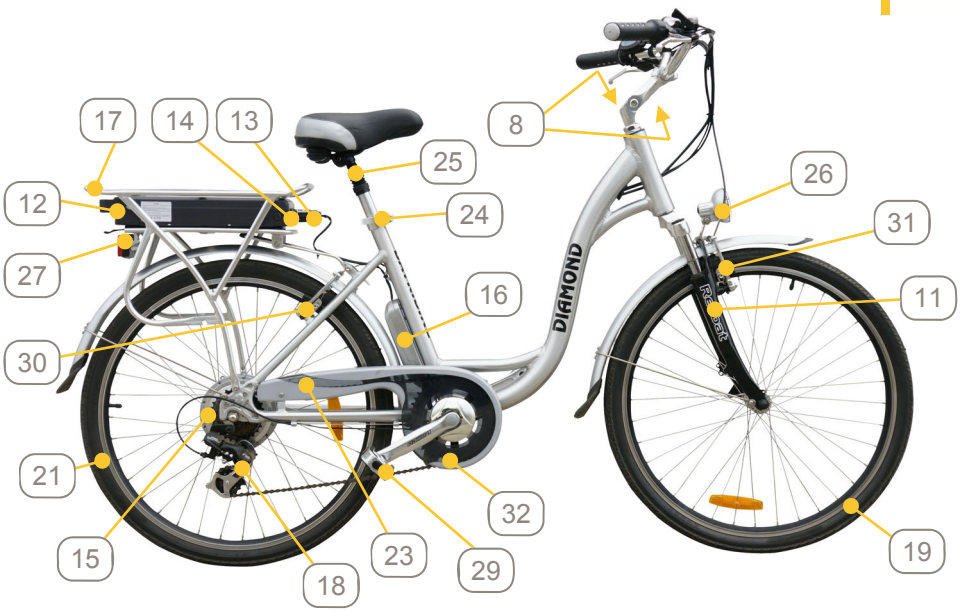
PARTS IDENTIFICATION We continually strive to ensure that we provide you with the best possible products, therefore SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE					
1	LCD	12	Battery	23	Chain Guard
2	Twist Grip Throttle	13	Battery Power Plug	24	Seat Height Adjuster
3	Rear Brake Lever	14	Charging Socket	25	Suspension Seat Post
4	Front Brake Lever	15	Rear Hub Motor	26	Front LED Light
5	Motor Cutout Switch	16	Controller Box	27	Rear LED Light
6	Gear Selector	17	Luggage Rack	28	Folding Pedals
7	Bell	18	7 Speed Shimano Gears	29	Non-Folding Pedals
8	Handlebar Adjustment	19	Front Tyre 26 x 1.75	30	Rear Vee Brake
9	Handlebar Folding Lock	20	Front Tyre 20 x 2.125	31	Front Vee Brake
10	Frame Folding Clamp	21	Rear Tyre 26 x 1.75	32	Chainwheel 44 T
11	Suspension Forks	22	Rear Tyre 20 x 2.125		





Detail view of
Battery Connections

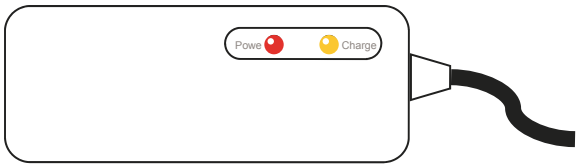
CHARGING THE BATTERY

The battery can be charged on or off the bike.
To remove the battery, unplug the battery from the bike, (Blue Plug)

(To remove the Blue Plug slide the silver locking tab backwards and rotate the plug anti-clockwise, then pull out of the socket).

then unlock with one of the two keys provided. Hold down the plastic clamping tab and slide out the battery from the rear of the carrier. Insertion is the reverse of the above procedure.

WARNING
Ensure that charging socket cover is CLOSED before removing or inserting battery. Failure to do so will result in breakage of the cover.



USE ONLY THE CHARGER SUPPLIED

The charging lead is plugged in to the charging socket located behind the slide cover on the battery.

Unplug the battery from the bike (Blue Plug) before charging, then plug in the charging lead.

IMPORTANT

It is important to plug the charger into the battery before switching on at the mains.

Similarly, switch off at the mains before unplugging the charger from the battery.

Plug the charger into the mains socket and switch on at the wall outlet. The lights on the charger will illuminate after a few seconds.

The RED light indicates that mains power is applied. The other light will show ORANGE whilst charging is taking place. This may take up to six hours for a flat battery.

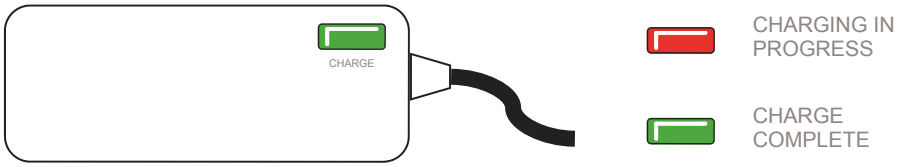
When the battery is charged the ORANGE light will change to GREEN.

Once charged, switch off at the wall outlet and unplug. Unplug the charging lead from the battery and slide the cover back over the charging socket.

NOTE: If the battery is charged and the charger left switched on for an extended period the charger will enter a low power state, indicated by both the RED and ORANGE/GREEN LEDs flashing slowly. Switch off and unplug as above.

Alternative Charger Type

An alternative type of charger may be supplied with one light instead of the two described above. In this case the light is RED when Charging, and GREEN when the charge cycle is complete.



The battery does not have to be completely discharged before it is recharged. The Lithium battery has no ‘memory’ and therefore can be charged at any time. It is perfectly acceptable to recharge the battery after a short ride so that the battery is fully charged before the next ride.

If your BATRIBIKE is not in use for an extended period it is imperative that you charge the battery before storage and then charge the battery once a month to prevent deterioration.
When not in use, store the battery in a warm, dry place.

FAILURE TO FOLLOW THIS PROCEDURE WILL INVALIDATE YOUR BATTERY WARRANTY

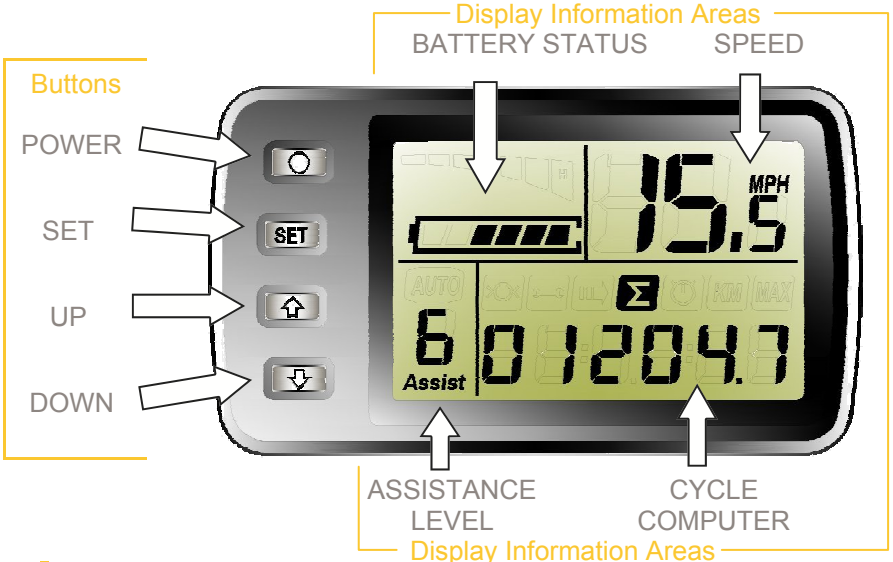
If Lithium batteries are left flat for an extended period then they may no longer be functional and a new replacement will be required.

With correct User Care as outlined above your battery should have a lifetime of around 1000 charges.

Usage

Your BATRIBIKE Electric Bicycle can be used as a normal pedal cycle by simply not switching on the battery.

(or using in Assist Level 0—see below)



ELECTRIC BICYCLE FUNCTIONS

Switching On

To use under electric power, plug in the battery with the blue plug located on the end of the battery beneath the rear of the seat. Then press the POWER button on the handlebar LCD display.

Initial Display

The display will initially show all of its indicators as part of the self-test routine, followed briefly by the wheel size current settings. (See separate section for calibration information). Once the power is on, the display will show the current settings and Total Trip Distance. The Assistance Level will be that selected when the POWER was last turned off.

By means of the other three buttons, SET, UP and DOWN, the various functions of the power controller and Cycle Computer can be utilised. See the following sections for details.

The SET button

The UP and DOWN buttons

Switching Off

To turn off the LCD and the power to the bike, press and hold the POWER button for 5 seconds.

If the power is left on for an extended period and the bike is not used, then the power will automatically be turned off.

Battery Meter

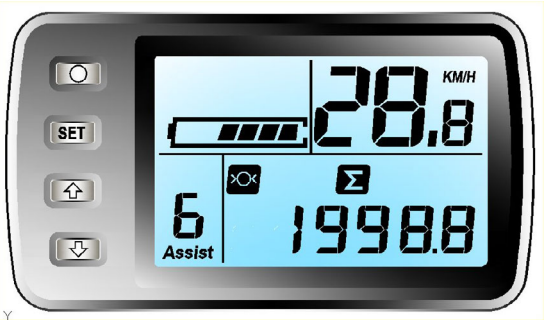
The LCD shows the charge remaining in the battery in the upper left of the display. The indicators will gradually go out as the battery power is used up. Refer to the table below for details.

BATTERY METER DISPLAYS THE CHARGE REMAINING IN THE BATTERY			
SYMBOL DISPLAYED	CHARGE REMAINING	SYMBOL DISPLAYED	CHARGE REMAINING
	80-100%		20-40%
	60-80%		10-20%
	40-60%		0-10%
		BATTERY IS EXHAUSTED AND SHOULD BE RECHARGED AS SOON AS POSSIBLE	

Display Backlighting—Night Mode

The LCD has a backlight for night time use. This is switched on by momentarily pressing the POWER button.

To turn the backlight off, momentarily press the POWER button again.



Speed Display

The upper right corner of the LCD will normally display the current speed of the bicycle. This can be set to Miles per Hour (MPH) or Kilometres per Hour (KMH). The display is accurate to about 10% when the wheel size is correctly calibrated and the tyre inflated as per the manufacturers recommendations.

To change from MPH to KMH or vice versa, press the SET and DOWN buttons together and hold for 10 seconds. (Until the MPH or KMH indicator flashes).

MPH

The Wheel Size indicator will then start to flash and the units can be changed from MPH to KMH by pressing the UP or DOWN buttons.

or

KM/H

KM/H

When the desired units are showing, press the SET button to confirm. The display will stop flashing and the new units are now selected.

Wheel Size Setting

It is important to set the correct wheel size to calibrate the display so that reasonably accurate speed and distance can be shown.

The **GRANITE** and **DIAMOND** models are supplied with 26” wheels and are set to 26.2/2133 when they leave the factory.

The **QUARTZ** model is supplied with a 20” wheel and has been set to 20.2/1590 prior to leaving the factory.

If you replace the original tyre with a different size then refer to the table at the end of this manual for the correct calibration settings. (Page 30)

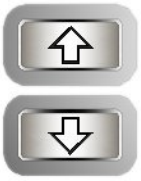
Alternatively, you can determine the circumference of the tyre by measuring the distance travelled in one revolution of the tyre on the ground and set the display to the nearest value available. (measured in mm)

To change the wheel size setting press and hold the SET button for 10 seconds and then use the UP and DOWN buttons to select the required value. Press the SET button to confirm your choice.

or

Pedal Assistance

There are 6 levels of pedal assistance available from the motor. Using the UP and DOWN buttons you can select from level 1, (LOW) to level 6, (HIGH). The motor will then be activated upon pedalling. There is a rotation sensor located near the crank which senses when the pedals are being used.



The speed and power will vary as the level is changed. Refer to the table below for a guide.

PEDAL ASSISTANCE FROM THE MOTOR		
LEVEL	PERFORMANCE *	EXAMPLE OF USAGE
6 Assist	28 Miles 15.5 MPH	Provides maximum power when negotiating hills and head winds. Great when needing to simply get from A to B as fast as possible. Great for Commuting to work.
5 Assist	32 Miles 13.5 MPH **	
4 Assist	42 Miles 12.5 MPH **	Normal Use Mode. These are the levels to use for everyday cycling. Gives good performance whilst maximising usable range per charge. Best for Leisure Use.
3 Assist	60 Miles 10.5 MPH **	
2 Assist	Range Not Tested 8.5 MPH **	Use these lower power levels when negotiating busy cycle paths and crowded areas. Also use when setting off and gradually increase through the levels for a smoother performance. Ideal for negotiating obstacles.
1 Assist	Range Not Tested 6.5 MPH **	

* Please remember that the above values are provided as a guide. Due to manufacturing tolerances the speeds and distances may vary.

Weather and terrain will affect the performance. In hilly areas or when the bike is heavily loaded there will be a significant increase in power used from the battery and hence the range will decrease accordingly. A lightly loaded bike will achieve higher performance levels.
(These results were obtained by test riders in optimal conditions—75kg rider, level ground, no wind).

** Due to the smaller wheel size, the **QUARTZ** model may exhibit speeds slightly lower than those stated in the table for the **GRANITE** and **DIAMOND** models. The maximum speed and the range should still be similar to that stated in the table above.

No Assistance—Normal Pedal Bicycle

If the Assistance level is set to 0, (ZERO) then the motor will not be turned on. Your BATRIBIKE will now act and feel like a normal bicycle. This is useful when you are feeling fit at the start of a journey or using your bike for exercise purposes. Power is still only a button press away.

Using the Twist Grip Throttle—Country Specific

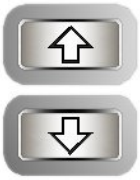
To activate the throttle, select AUTO mode. The AUTO indicator will be displayed. In this mode the right hand handlebar grip throttle control is now live. In all other assistance levels the throttle is not functional.

You can still pedal the bike but power will not be applied until the throttle is twisted towards the rider.

Use the throttle control gently. A small twist will apply a small amount of power. Twisting more will increase the power until the control is fully rotated when full motor power will be applied.

Throttle assistance can also be used without pedalling.

A handy way of using the throttle is to pull away from junctions, or when starting on inclines as the rider will pull away easier and is less likely to wobble. It can also be useful when in normal bicycle mode to pull out and overtake slower cyclists smoothly and quickly.



When in AUTO mode, pressing the DOWN button will take you back to maximum pedal assistance level 6. Alternatively the UP button, if pressed when AUTO is selected, will take you to assistance level 0. (No assistance).

PLEASE NOTE:

The throttle control is not fitted for some countries due to legal restrictions. Please refer to your dealer for help and advice.

Launch Assist

If you want help in setting off on inclines or to get a smooth getaway at junctions and traffic lights, there is a system available whereby the motor can be applied even when no assistance is selected. This is known as Launch Assist and is activated by holding down the UP button for 2 seconds.

The motor will be switched on in low speed and will continue on until the UP button is released. The bicycle will be powered at approximately 4 MPH, 6 KMH.

This system is designed for intermittent use and should not be used for more than a few seconds at a time. If you want continuous power then the Assist modes should be selected.

BS EN15194 Compliance

The BATRIBIKE LCD range is tested and certified to BS EN15194.
For the British market, the addition of a twist grip throttle has rendered this not compliant in some countries.

- You are recommended to seek advice from the relevant authorities in the country you are visiting before travelling.

Other Functions

The SPANNER icon indicates a Service Code.

If this is shown then switch off the power and disconnect the battery for 2 minutes. Plug back in and switch on.

If the SPANNER icon is still shown, make a note of the CODE displayed and contact your dealer for assistance.

CYCLE COMPUTER

The LCD models have several useful Cycle Computer functions built in. There is a built in sensor and pickup located in the rear hub which activates the speed and distance readings.

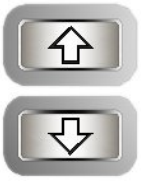
TOTAL DISTANCE

The default display mode will show the TOTAL DISTANCE travelled by the bike. This cannot be reset to zero by the user.

Depending on the units selected, the display will read in Miles or Kilometres.

Changing Modes

To select the required Cycle Computer Function press the SET button and use the UP and DOWN buttons to select the various modes available. The icons will flash.



IPress the SET button again once the desired mode icon is displayed. If no button is pressed for 10 seconds the display will revert to showing the last selected function.

TRIP DISTANCE

When the TRIP DISTANCE icon is selected the lower right of the display will show the distance travelled since the last reset. This will show in Miles or Km depending on the units selected.

TRIP TIME

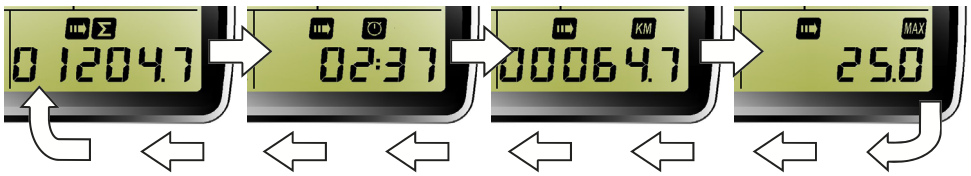
When the TRIP TIME icon is selected the lower right of the display will show the time spent cycling since the last reset.
This will show in hours and minutes.

MAXIMUM SPEED

When the MAXIMUM SPEED icon is selected the lower right of the display will show the maximum speed reached since the last reset. This will display in Miles or Km depending on the units selected.

Rolling Display Mode

The display can be set to “roll” through the above values automatically. Press the SET button then use the UP or DOWN buttons to select the ROLLING DISPLAY icon. Then press the SET button again to confirm the selection.



The display will change every few seconds to show each of the values in turn. TOTAL DISTANCE, TRIP TIME, TRIP DISTANCE, MAXIMUM SPEED then return to TOTAL DISTANCE to start the sequence again.

Resetting the TRIP

The TRIP functions of TIME, DISTANCE and MAXIMUM SPEED can be reset to zero by pressing and holding the DOWN button for 5 seconds. The values will be reset to zero.

The TOTAL DISTANCE will not be reset.

STANDARD BICYCLE FUNCTIONS

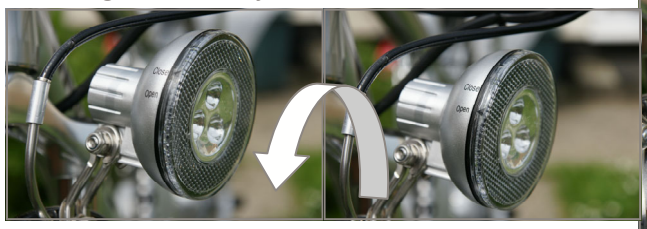
Gears

The **DIAMOND, GRANITE & QUARTZ** are provided with 7 speed Shimano gears. To change gear you use the right handlebar mounted selector. Gear number 1 is low for hills and rough terrain and gear 7 is high for normal road use. To increase the gear simply press the + button with your right thumb. To decrease the gear push the black lever away from you with your thumb. You must be pedalling forwards as you change gears.

Lights

Lights are provided on your BATRIBIKE bicycle. These are power efficient LED units which achieve a long life on each set of batteries.

SAFETY FEATURE - The power for the front and rear lights is kept separate from the main power supply so that in the event that the battery is exhausted you will still have lights for safety.



The front light is powered by 3 AAA size batteries and is switched on by the black push button switch at the rear of the unit.

To replace the batteries simply twist the lens anti-clockwise and pull free.

There is a small warning light on top of the front lamp unit. This lights to show that the batteries are getting low and should be replaced.

The rear light requires 2 AA batteries. You will require a small Philips screwdriver to take off the red lens for battery replacement. It is switched on and off by the small red push button switch on the underside of the unit.

Braking

To stop, release the throttle and pull the brake levers.

Centre Stand (where fitted)

To put the bicycle on its stand:-

1) While holding the bicycle upright, place your foot behind the stand.
2) Pull the bicycle backwards until the stand is in place.

Make sure bicycle is on solid ground.

Side Stand (where fitted)

To put the bicycle on its stand:-

1) While holding the bicycle upright, push the stand to its full extent.
2) Lean the bicycle over onto the stand.

Make sure bicycle is on solid ground.

Do not sit on the bicycle whilst the stand is down. It is designed to take the weight of the bicycle and not the additional weight of the rider.

Quick Release fittings for Seat Height Adjustment

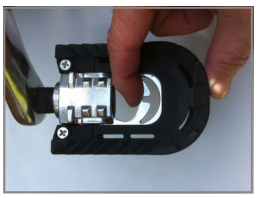
With the locking lever in the loose position, tighten the nut until finger tight. The final tightening is done by moving the lever to the locked position. To undo move the lever to the loose position to enable height adjustment.

Loose

Locked

Folding the Bicycle (Quartz only)

Fold pedals by squeezing in as per photo, and turning through 90 degrees.



Turn the pedals to a suitable position so they are not trapped when folding the frame.

Release centre frame lock as follows:-

Flip catch

Turn to side

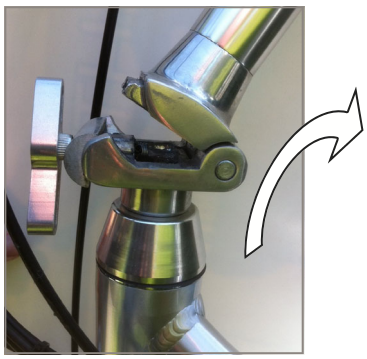
Lift up lever to release pin from frame

- Fold frame front to back.
- Unscrew handlebar folding lock fully and fold down handlebars.

Handlebar Clamp
CLOCKWISE = TIGTHEN
ANTI-CLOCKWISE = LOOSEN

HANDLEBAR FOLDING

Loosen the clamp and fold in the direction shown. Take care not to trap the wires and cables.



Reverse procedure to return bicycle to riding position.

Adjusting the Handlebars (Granite & Diamond)

The handlebars can be adjusted for height and angle to suit the rider. Hex keys, (not supplied), will be required to carry out these adjustments.

Luggage Rack

The luggage rack provided is designed to carry a maximum load of 25kg. Make sure that any items carried are securely strapped and nothing is able to get caught in the rear wheel.

All other operation of your BATRIBIKE Electric Bicycle is as per a normal pedal cycle.

MAINTAINANCE SCHEDULE

Maintaining your bicycle ensures you'll get the most out of every ride and out of the entire life of your BATRIBIKE electric bike. How much of your bike's maintenance you can do yourself will depend on your knowledge, skill, experience and whether you have the necessary tools for the job.

Beyond this manual, it is good to consult your BATRIBIKE dealer for advice if you are at all unsure about any of the procedures described. Normal maintenance is not covered under the warranty and this service may be chargeable.

Before every ride

- Mechanical safety checks, use a fully charged battery, visual inspection for damages.

After every ride (or WEEKLY)

- Clean the bike, including chain rings and sprocket. Clean and lightly oil the chain and gears.
- This must be carried out after every ride in dusty, marine or winter conditions due to the salt laden atmosphere.

Every 20 - 30 hours of riding (or MONTHLY)

- Squeeze the brakes and rock the bike to check for any looseness of the headset or brake mechanisms with each forward of backward movement. If any are loose, have your dealer check it.
- Lift the front wheel and turn handlebars left and right to check for tightness of steering. If tightness is detected it may be necessary to lubricate bearings and/or adjust the headset.
- Check and adjust the brakes, replace if worn out.
- Squeeze spokes in adjoining pairs between your thumb and index finger. They all should have the same tension. Have your dealer re-spoke or true the wheel if necessary.
- Check cables for rust, kinks and fraying, have your dealer replace them if necessary.
- Check bottom bracket for play and adjust if necessary.
- Check wheel bearings for play and adjust/lubricate if necessary

After 3,000 miles (5,000 km) (or YEARLY)

- Hub motor and general inspection
  We recommend you arrange to have a thorough inspection of your bicycle by a BATRIBIKE dealer. This includes opening up the hub motor to inspect and lubricate the gears.

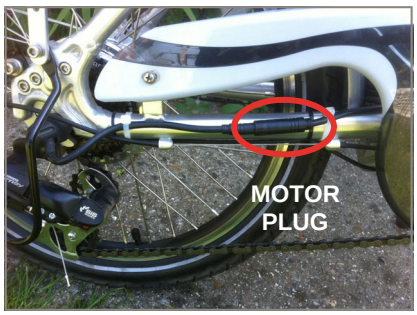
Tyre Pressures

The tyres should be pumped up to within the range stated on the sidewall. This should be regularly checked as running with the correct pressures will ensure maximum range from the battery.

Repairing a punctured tyre

If you have a punctured tyre, we recommend that you get a specialist to carry out the repairs. You can always of course consult a specialist and carry out the repairs on your own if you are confident that you have the necessary skills. As there are no electronic components on the front wheel, its removal follows standard procedures as with normal bicycles.

Removing the Rear Wheel



If you need to remove the rear wheel, for example, to replace the rear tyre, then the motor can be unplugged to aid disassembly. The plug is located on the lower rear arm of the frame as shown, (Left).

Remember to ensure that the cable is suitably secured to the bicycle frame upon re-assembly.

Be mindful of the tightening assembly sequence of washers, nuts and spacers.

Battery Fuse

If the battery will not operate or charge correctly, firstly check the battery fuse (rated 30A) located on the side of the battery beneath the screw cover. Use a large flat bladed screwdriver or a small coin to remove the cover.

WARRANTY CONDITIONS

The following warranty conditions are in addition to your legal rights.

Requirements for Warranty

As the makers, we guarantee against possible material or construction defects. Provided the following conditions are satisfied :

- Please retain your receipt as this is your proof of purchase and entitlement to Warranty. The guarantee starts on the date of purchase.
- Warranty is non transferable and applies only to the original owner.
- The Frame of your new BATRIBIKE Granite, Diamond & Quartz is guaranteed for 3 years from date of purchase.
- The Motor and Electronics are guaranteed for 2 years from date of purchase.
- Other main cycle parts have a warranty of 1 year.
- The battery is covered for 1 year.

Please take note of the Battery Care information contained in this manual to ensure your battery life is maximised, and to comply with the Warranty Conditions

Exclusions from Warranty

- When the bicycle is used negligently or results in damage due to traffic accident.
- Damage ascribed to normal wear and tear.
- Poor maintenance, or modifications that no longer complies with regulations or original technical specifications.
- Damage due to external causes.
- The bicycle is put up for hire.
- The battery pack is used incorrectly or tampered with. This also applies during charging.
- Compensatory costs arising from damages or accidents.
- Cost incurred by loss of the bicycle's usage.

Brake blocks/pads, tyres, lights and cables etc. are considered as consumables and replacements are available from BATRIBIKE or may be obtained from your local cycle shop.

In the event of a Warranty claim

- In the event of warranty repairs becoming necessary you should return your bicycle to your Authorised Batribike Dealer, (where you originally purchased your Batribike).
- Original defective parts that are sent to the manufacturer for assessment will be replaced by the same or equal value part.
- Delivery and collection charges are not included. These are borne by the owner.
- Fallowgate Limited exclusively makes the decision whether or not the warranty applies.

Technical Specification GRANITE

Frame Size	37 cm (14.5 inches)	Power Delivery	Pedal, Twist Grip or Launch Assist Button	Lights	Front - LED light requires 3 x AAA batteries
Frame Material	Aluminium Alloy	Sensor	Rotation Sensor		Rear – LED light requires 2 x AA batteries
Colour	Silver	Range (motor only)	up to 24 miles (Auto) at 14 to 15 mph	Saddle Height	81 – 97 cm (31.9 – 38.2 inches)
Weight (inc. all fittings, rack, mud-guards etc)	23.4 kg (51.6 lbs) inc. battery	Range (pedal assist)	28 miles (Level 6) 15.5 mph 32 miles (Level 5) 13.5 mph 42 miles (Level 4) 12.5 mph 60 miles (Level 3) 10.5 mph See Note** (Level 2) 8 5 mph See Note** (Level 1) 6.5 mph	*Note – the min height can be reduced by 5cm (2 in) by selecting a seat post without suspension from our accessories.*	
	19.9 kg (43.9 lbs) battery removed			Overall Length	156 cm (61.3 inches)
Battery Type	Lithium	Gears	7 speed Shimano index	Overall Height	117 cm (46 inches)
Battery Power	36V 10Ah	Brakes	Powerful Vee Brakes Front and Rear	Step-thru Height	35 cm (13.75 inches)
Battery Life	1000 charge cycles	Wheels	20”	Wheelbase	100 cm (39.5 inches)
Motor	250W Rear hub	Forks	Suspension	Max Rider Weight	130 kg (20 st 7 lbs)
Speed	Up to 15mph	Seat	Comfort Saddle with suspension seat post (Ø28.6 mm)	Security	Battery locks on to carrier with unique key
Power System	Multi mode • Cycle only • Pedal assist 6 power levels • Twist grip throttle • Launch Assist 6 kmh (4 mph)	Stand	Sturdy side stand	Rider Protection	Mudguards and chain guard fitted as standard
		Rear Rack	Aluminium Alloy rack housing rattle free battery carrier	Folded Size	81 cm x 70 cm x 46 cm (31.9 inches x 27.6 inches x 18 inches)
(All distances quoted on flat ground with a 75 kg (12 stone) rider)					

Technical Specification DIAMOND

Frame Size	44.5 cm (17.5 inches)	Power Delivery	Pedal, Twist Grip or Launch Assist Button	Lights	Front - LED light requires 3 x AAA batteries
Frame Material	Aluminium Alloy	Sensor	Rotation Sensor		Rear – LED light requires 2 x AA batteries
Colour	Silver	Range (motor only)	up to 24 miles (Auto) at 14 to 15 mph	Saddle Height	89 – 101 cm (35 – 39.75 inches)
Weight (inc. all fittings, rack, mudguards etc)	24.5 kg (54 lbs) inc. battery	Range (pedal assist)	28 miles (Level 6) 15.5 mph 32 miles (Level 5) 13.5 mph 42 miles (Level 4) 12.5 mph 60 miles (Level 3) 10.5 mph See Note** (Level 2) 8 5 mph See Note** (Level 1) 6.5 mph	*Note – the min height can be reduced by 7cm (2.75in) by selecting a seat post without suspension from our accessories.*	
	21.0 kg (46.3 lbs) battery removed			Overall Length	176 cm (69.3 inches)
Battery	Lithium	Gears	7 speed Shimano index	Overall Height	112 cm (Typical *) (44 inches)
Battery Power	36V 10Ah	Brakes	Powerful Vee Brakes Front and Rear	Step-thru Height	42 cm (16.5 inches)
Battery Life	1000 charge cycles	Wheels	26”	Wheelbase	108 cm (42.5 inches)
Motor	250W Rear hub	Forks	Suspension	Max Rider Weight	130 kg (20 st 7 lbs)
Speed	Up to 15mph	Seat	Comfort Saddle with suspension seat post (Ø28.6 mm)	Security	Battery locks on to carrier with unique key
Power System	Multi mode • Cycle only • Pedal assist 6 power levels • Twist grip throttle • Launch Assist 6 kmh (4 mph)	Stand	sturdy side stand	Rider Protection	Mudguards and chain guard fitted as standard
		Rear Rack	Aluminium Alloy rack housing rattle free battery carrier	* *Height varies due to handlebar stem height/rake adjustment* ** *Distance not tested on Levels 2 and 1 but are likely to exceed those stated above.*	

(All distances quoted on flat ground with a 75 kg (12 stone) rider)

Technical Specification QUARTZ

Frame Size	46 cm (18 inches)	Power Delivery	Pedal, Twist Grip or Launch Assist Button	Lights	Front - LED light requires 3 x AAA batteries
Frame Material	Aluminium Alloy	Sensor	Rotation Sensor		Rear – LED light requires 2 x AA batteries
Colour	Silver	Range (motor only)	up to 24 miles (Auto) at 14 to 15 mph	Saddle Height	90 – 102 cm (35.4 – 40.2 inches)
Weight (inc. all fittings, rack, mud-guards etc)	24.0 kg (52.9 lbs) inc. battery	Range (pedal assist)	28 miles (Level 6) 15.5 mph 32 miles (Level 5) 13.5 mph 42 miles (Level 4) 12.5 mph 60 miles (Level 3) 10.5 mph See Note** (Level 2) 8 5 mph See Note** (Level 1) 6.5 mph	*Note – the min height can be reduced by 7 cm (2.75 in) by selecting a seat post without suspension from our accessories.*	
	20.5 kg (45.2 lbs) battery removed			Overall Length	174 cm (68.5 inches)
Battery	Lithium	Gears	7 speed Shimano index	Overall Height	105 cm (Typical *) (41.3 inches)
Battery Power	36V 10Ah	Brakes	Powerful Vee Brakes Front and Rear	Step-thru Height	71.1 cm (28 inches) Min Crossbar height
Battery Life	1000 charge cycles	Wheels	26”	Wheelbase	105 cm (41.3 inches)
Motor	250W Rear hub	Forks	Suspension	Max Rider Weight	130 kg (20 st 7 lbs)
Speed	Up to 15mph	Seat	Comfort Saddle with suspension seat post (Ø28.6 mm)	Security	Battery locks on to carrier with unique key
Power Sys-tem	Multi mode • Cycle only • Pedal assist 6 power levels • Twist grip throttle • Launch Assist 6 kmh (4 mph)	Stand	Adjustable centre stand or sturdy side stand supplied	Rider Protection	Mudguards and chain guard fitted as standard
		Rear Rack	Aluminium Alloy rack housing rattle free battery carrier	** Height varies due to handlebar stem height/rake adjustment* *** Distance not tested on Levels 2 and 1 but are likely to exceed those stated above.*	

(All distances quoted on flat ground with a 75 kg (12 stone) rider)

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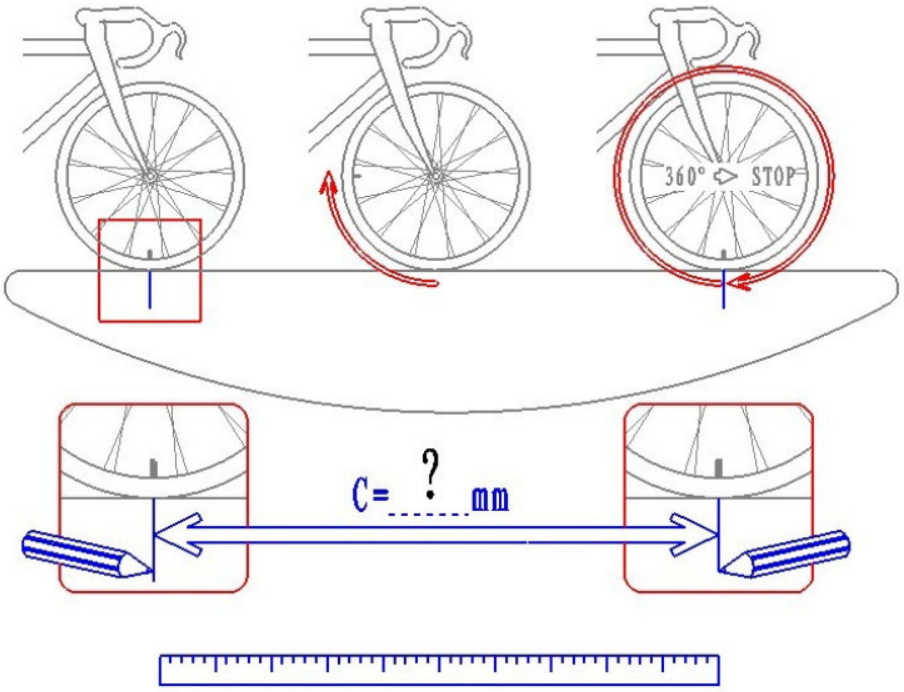
Wheel/Tyre Size Chart - available values

WHEEL/TYRE SIZE INFO	DISPLAY SETTING		WHEEL/TYRE SIZE INFO	DISPLAY SETTING	
	16	1272		26	2105
Factory setting for QUARTZ	**20**	**1590**		26	2114
	24	1907	**Factory setting for GRANITE & DIAMOND**	**26**	**2133**
	24	1948		27	2146
	26	1954		27	2149
	26	1973		27	2174
	26	2026		27	2199
	26	2051		28	2205
	26	2072		28	2224
	26	2086		28	2265
	26	2089		28	2268
	26	2102			

See Wheel Size Setting on page 10 for details.



Please consider the environment before disposing of any part of your Batribike Electric Bicycle.

The Battery Pack contains Lithium and Special Consideration should be given to its safe disposal.
Your Local Authority should have the necessary facilities in place.

If you prefer you may take your original battery to BATRIBIKE for recycling.

Never dispose of batteries in a fire or subject to puncture or crushing.

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A BRITISH COMPANY

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